GOVERNMENT OF INDIA
POWER
LOK SABHA

UNSTARRED QUESTION NO:1708
ANSWERED ON:28.11.2002
INTERLINKAGE OF POWER GRID
JAIBHAN SINGH PAWAIYA

Will the Minister of POWER be pleased to state:

(a) whether the Government have prepared a plan to interlink all power grids;

(b) if so, the details thereof;

(c) the amount likely to be spent on it;

(d) the sources from which this amount is likely to be raised; and

(e) the time by which the proposed plan is likely to be implemented?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA)

(a) to (e) : The Indian Power System is presently divided into five regional grids andwithin each region strong interconnection and well developed regional grids are in position. In order to extend the benefit of generation resources all over the country and to transfer surplus power in one region to a power deficit region, interconnection of regions have been planned. The HVDC inter-regional links between Western & Northern, Western & Southern, Eastern & Northern and Eastern & Southern Regions are alreadyexisting. The existing interconnections between the regions and the back up regional transmission network within each region were developed for limited exchange of operational surpluses for opportunity utilization in other regions under the concept of regional self-sufficiency.

A plan has been chalked out to integrate all the regions in the country by creating `National Grid` through HVDC stations/bi-pole and 765 KV AC links in aphased manner to facilitate transfer of power between the regions without any constraint. For further strengthening of the grid system, high capacity long HVDC links as well asAC links have been planned to be commissioned along with Mega projects. In the ultimate phase, a strong synchronous National Power Transmission Grid has beenenvisaged to evacuate the power from major generating resources. This would involve development of a high capacity 400 KV transmission corridor connecting the North-East through the `chicken-neck` area (to Siliguri) and establishment of a ring of 765 KV linesinterconnecting Eastern, Western and Northern Regions.The Southern Grid would belinked to the Eastern & Western Grids through strong 400 KV HVDC links at variousplaces like Jeypore-Gajuwaka, Talcher-Kolar, Chandrapur-Ramagundam, etc.Inter- regional transmission capacity of the proposed National Grid would increase to about 30,000 MW.

An investment of about Rs.77,000 crore would be required forestablishment of the ultimate National Grid by 2011-12. The investment amount is proposed to be mobilized by POWERGRID through internal resources, loans fromdomestic/external commercial markets, assistance from multi-lateral funding agencies like World Bank, Asian development Bank, etc., budgetary support from Government and investment by private sector.